

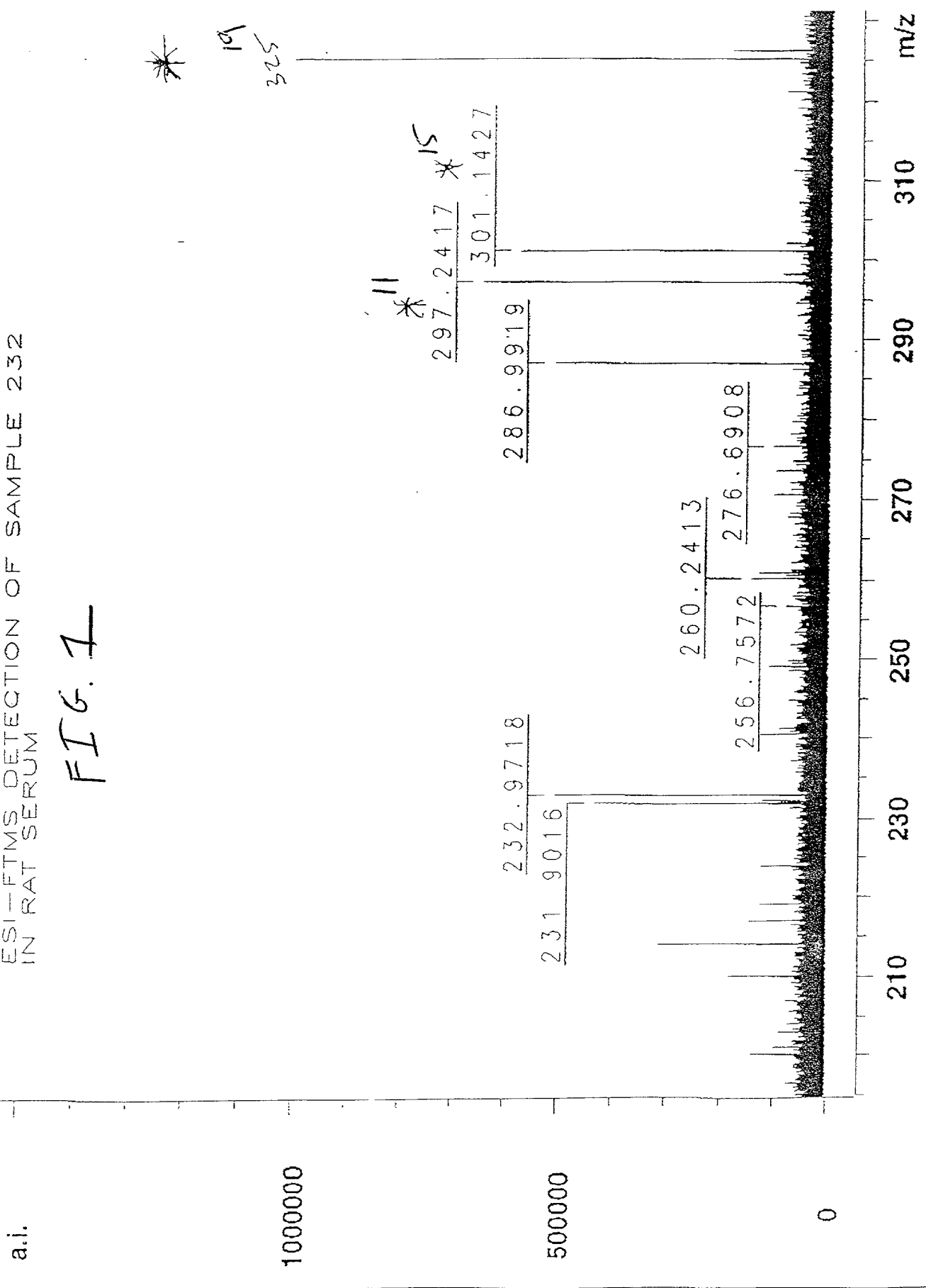
#1

TOTAL SPECTRUM

22

ESI-FTMS DETECTION OF SAMPLE 232  
IN RAT SERUM

FIG. 1



XMASS Mass Analysis for /u/data/ESPIRON/NANO\_ESI\_TUNE/1/pdata/1/massanal.res:  
 XMASS Mass Analysis Constraints

Ion mass [1] = 325.2005500  
 Ion mass [2] = 297.2416910  
 Ion mass [3] = 301.1426890  
 Ion mass [4] = 286.9918690  
 Ion mass [5] = 232.9718330  
 Ion mass [6] = 231.9015670  
 Ion mass [7] = 214.0071700  
 Ion mass [8] = 326.2039470  
 Ion mass [9] = 210.0501390  
 Ion mass [10] = 260.2412610  
 Ion mass [11] = 216.9938940  
 Ion mass [12] = 200.0411420  
 Ion mass [13] = 260.9126560  
 Ion mass [14] = 240.5409770  
 Ion mass [15] = 219.0724470  
 Ion mass [16] = 223.8996390  
 Ion mass [17] = 232.2362940  
 Ion mass [18] = 249.0623590  
 Ion mass [19] = 276.6907760  
 Ion mass [20] = 270.6861980

*Handwritten signature*

FIG. #2

Charge = +1  
 Tolerance = 0.1000000

DBE min = -2  
 DBE max = 11

Max Candidates = 100

Atom	#(min, max)	Wt%(min, max)
12C	5 20	0.00 100.00
1H	5 40	0.00 100.00
16O	1 5	0.00 100.00
23Na	1 1	0.00 100.00

#	12C	1H	16O	23Na	mass	DBE	error
*** Mass Analysis for mass 325.2005500							
1	16	30	5	1	325.1985452	1.5	6.165e-06
2	20	30	2	1	325.2138013	5.5	4.075e-05
3	19	26	3	1	325.1774158	6.5	7.114e-05
4	17	34	4	1	325.2349307	0.5	1.057e-04

19

OK + Na

#	12C	1H	16O	23Na	mass	DBE	error
*** Mass Analysis for mass 297.2416910							
1	16	34	3	1	297.2400160	-0.5	5.635e-06
2	19	30	1	1	297.2188867	4.5	7.672e-05
3	17	38	2	1	297.2764016	-1.5	1.168e-04
4	15	30	4	1	297.2036305	0.5	1.280e-04

11

OK + Na

#	12C	1H	16O	23Na	mass	DBE	error
*** Mass Analysis for mass 301.1426890							
1	16	22	4	1	301.1410303	5.5	5.508e-06
2	20	22	1	1	301.1562864	9.5	4.515e-05
3	19	18	2	1	301.1199009	10.5	7.567e-05
4	17	26	3	1	301.1774158	4.5	1.153e-04
5	15	18	5	1	301.1046448	6.5	1.263e-04

15

OK + Na

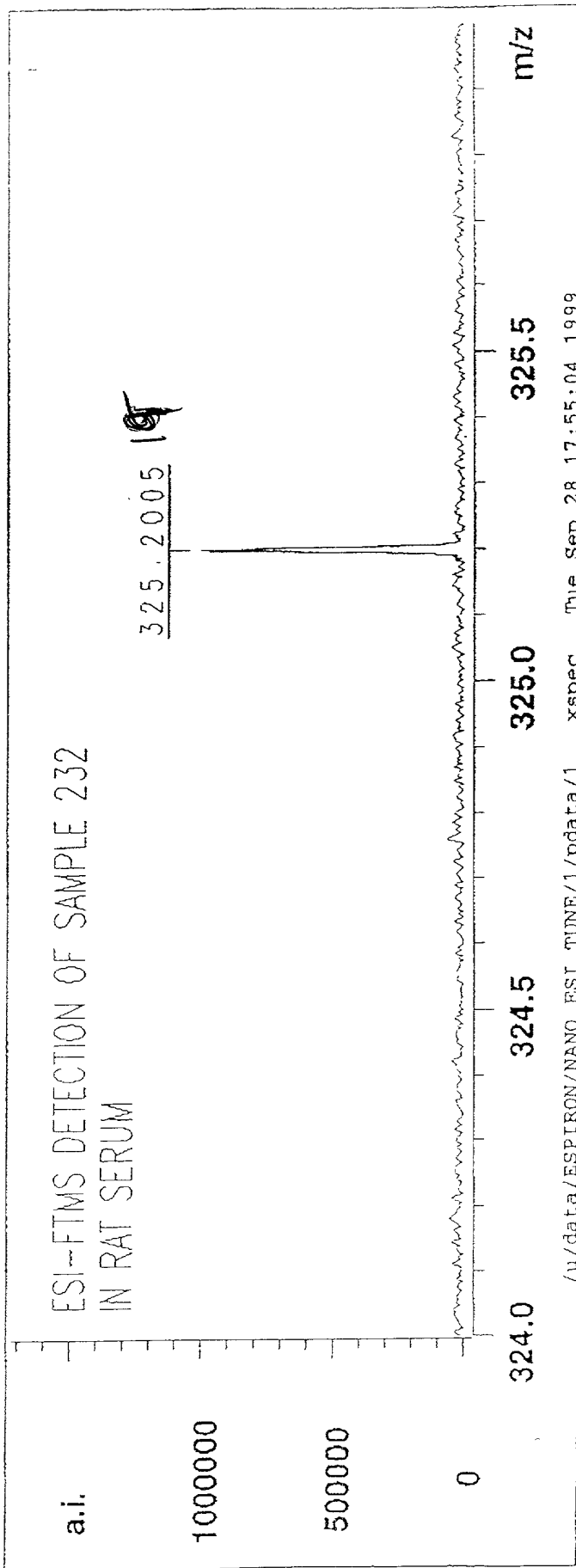
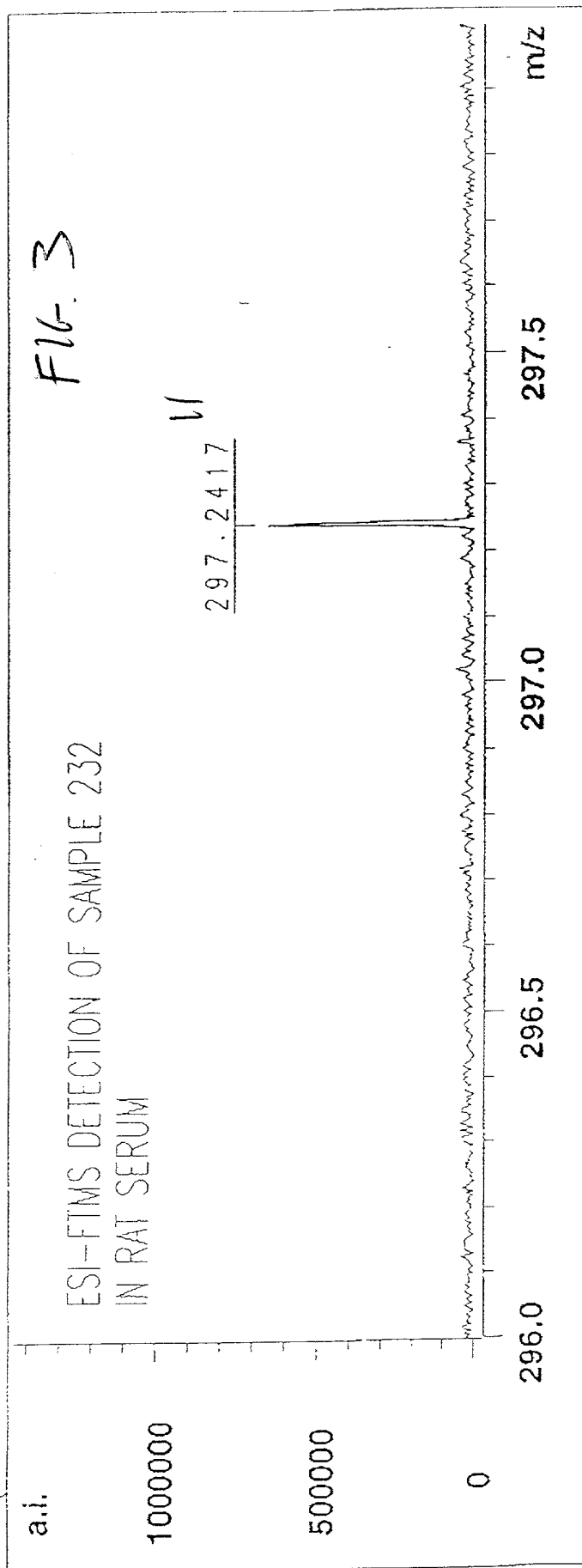
\*\*\* Mass Analysis for mass 286.9918690

\*\*\* Mass Analysis for mass 232.9718330

\*\*\* Mass Analysis for mass 231.9015670

SCANNED, # 20

#3.



#4

FIG. 4

ESI-FTMS OF SAMPLE 1 RAT SERUM.  
PROTEIN PRECIPITATED AND DESALTED  
USING ION EXCHANGE RESIN.

a.i.

0.0e+00

-5.0e+10

-1.0e+11

-1.5e+11

-2.0e+11

-2.5e+11

SERUM 2

SERUM 3

SERUM 4

SERUM 5

SERUM 6

765

767

769

m/z